

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478968

Luminaire Tested: **IFLD-L-SA8C-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478968
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

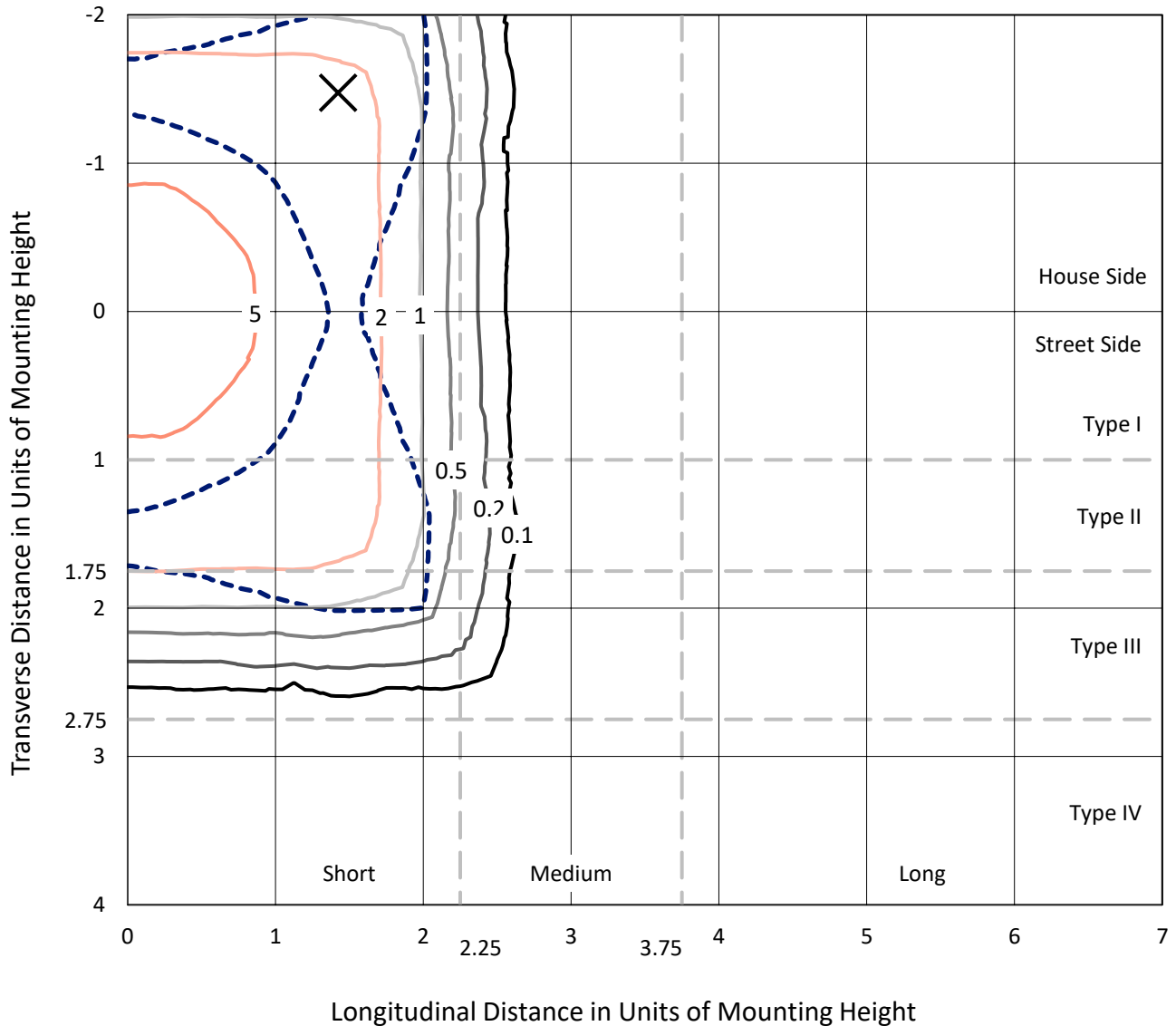
Lumens per Lamp: N/A
Luminaire Lumens: 50530.9 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

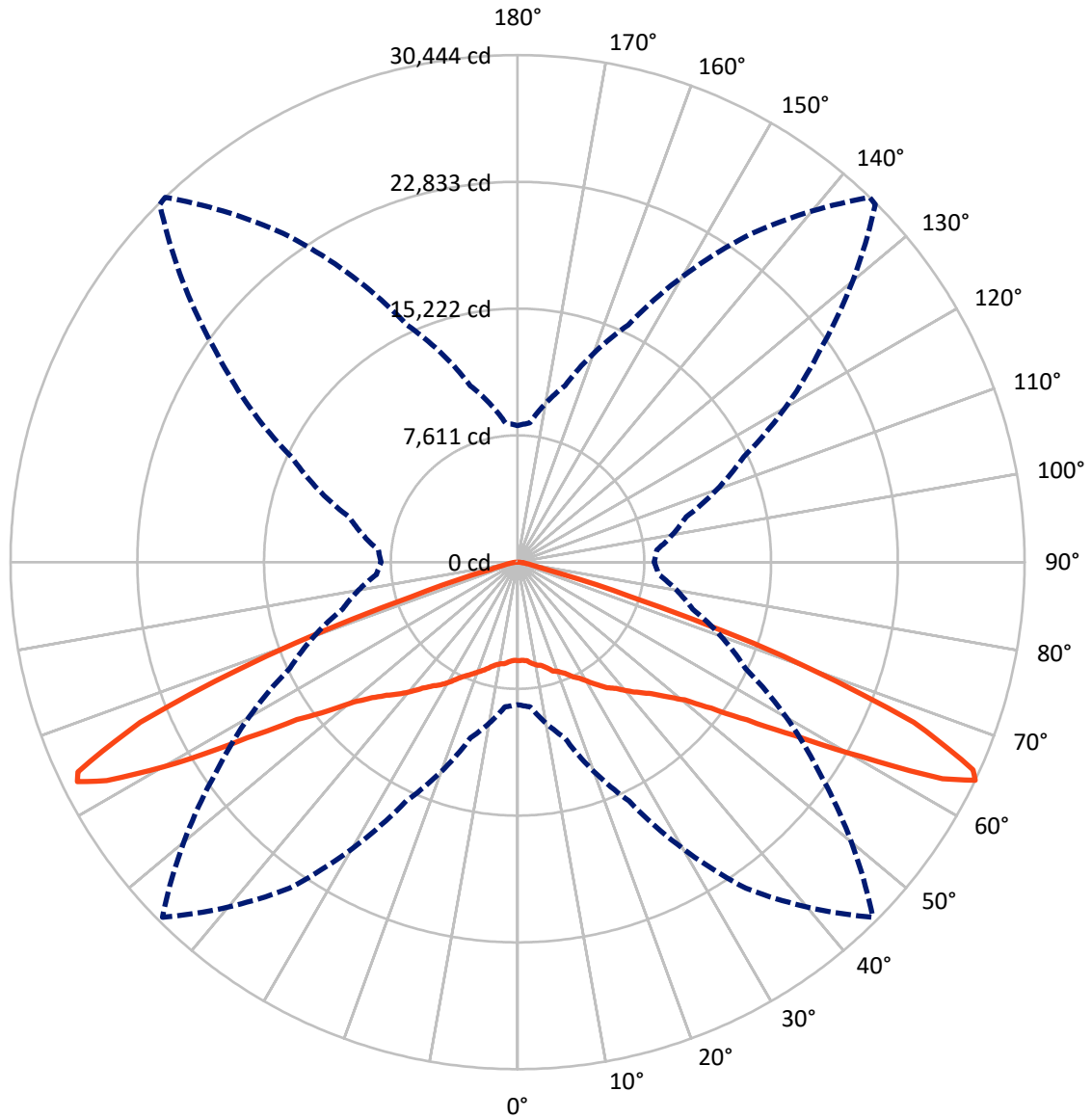
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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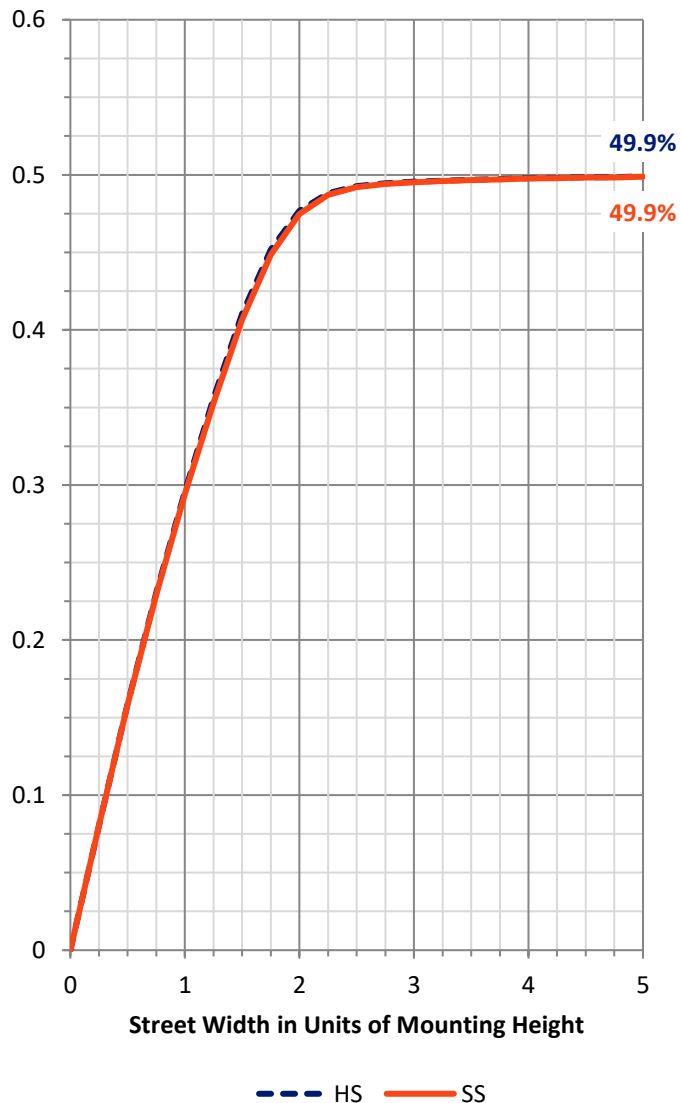
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25289.5	0.0	25289.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25241.4	0.0	25241.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	50530.9	0.0	50530.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.3	1.2
10°-20°	1873.6	3.7
20°-30°	3521.2	7.0
30°-40°	5807.0	11.5
40°-50°	9081.7	18.0
50°-60°	14673.9	29.0
60°-70°	13212.9	26.1
70°-80°	1565.1	3.1
80°-90°	214.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	50530.9	100.0
0°-180°	50530.9	100.0

Coefficient of Utilization



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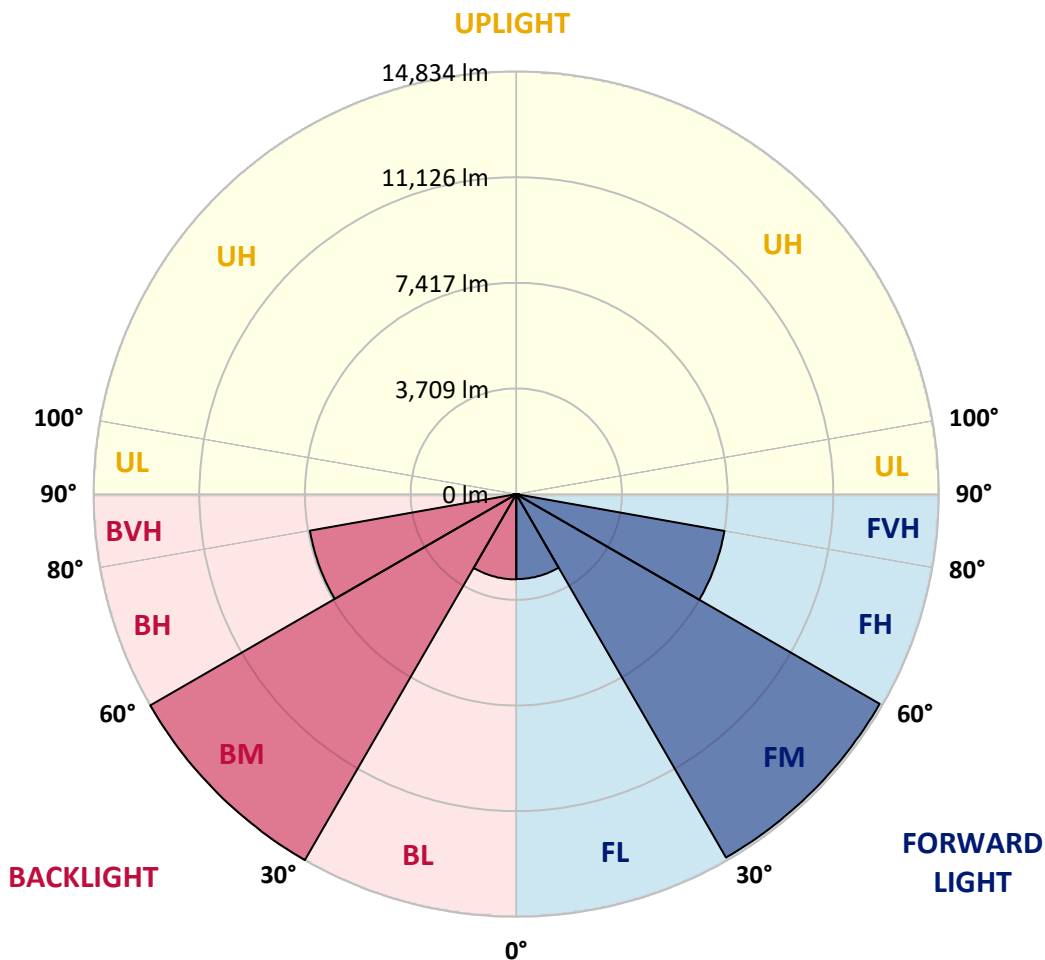
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2982.2	5.9			
FM (30°-60°)	14728.2	29.1			
FH (60°-80°)	7421.0	14.7			G3/7500
FVH (80°-90°)	109.9	0.2			G2/225
BL (0°-30°)	2993.8	5.9	B4/5000		
BM (30°-60°)	14834.4	29.4	B5		
BH (60°-80°)	7357.0	14.6	B5		G3/7500
BVH (80°-90°)	104.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	5846.6	5858.2	5962.5	5921.9	5956.7	5893.0	5939.3	6037.8	5921.9	6008.8	6037.8
5°	5910.3	5927.7	5927.7	5968.3	5991.5	5979.9	6008.8	5968.3	6078.4	6032.0	6101.6
7.5°	6142.1	6113.1	6066.8	6101.6	6107.3	6136.3	6165.3	6217.4	6200.1	6159.5	6229.0
10°	6182.7	6159.5	6229.0	6234.8	6205.9	6182.7	6211.6	6211.6	6263.8	6275.4	6275.4
12.5°	6252.2	6275.4	6269.6	6315.9	6321.7	6304.4	6350.7	6437.6	6414.5	6431.8	6391.3
15°	6518.8	6489.8	6484.0	6530.3	6605.7	6495.6	6576.7	6570.9	6547.7	6582.5	6489.8
17.5°	6750.5	6657.8	6698.4	6773.7	6744.7	6767.9	6872.2	6779.5	6802.7	6762.1	6733.1
20°	6953.3	6878.0	6883.8	6912.8	6912.8	6982.3	7022.9	6988.1	6964.9	6959.1	6970.7
22.5°	7179.3	7092.4	7098.2	7219.9	7260.4	7237.3	7208.3	7266.2	7277.8	7231.5	7283.6
25°	7347.4	7440.1	7469.0	7527.0	7440.1	7503.8	7480.6	7590.7	7660.3	7567.5	7631.3
27.5°	7787.7	7747.2	7822.5	7816.7	7886.2	7822.5	7863.1	7897.8	7926.8	7932.6	7903.6
30°	8181.8	8199.1	8123.8	8326.6	8164.4	8268.7	8338.2	8355.6	8390.4	8390.4	8303.4
32.5°	8599.0	8564.2	8685.9	8639.5	8610.5	8691.7	8616.3	8853.9	8714.8	8796.0	8697.5
35°	9068.3	9068.3	9114.7	9242.1	9068.3	9016.2	9155.2	9253.7	9253.7	9108.9	9143.6
37.5°	9595.6	9549.2	9607.2	9769.4	9636.2	9462.3	9717.3	9757.8	9728.9	9688.3	9618.8
40°	9966.4	9954.9	10070.7	10285.1	10093.9	10059.2	10105.5	10215.6	10250.4	10290.9	10198.2
42.5°	10592.2	10644.4	10980.5	10928.3	10771.9	10650.2	10638.6	11050.0	10951.5	10847.2	10795.1
45°	11519.4	11473.0	11646.8	11652.6	11449.8	11183.3	11241.2	11617.9	11785.9	11554.1	11641.0
47.5°	12255.3	12278.4	12400.1	12649.3	12179.9	11901.8	12116.2	12724.6	12672.5	12585.5	12666.7
50°	13240.3	13344.6	13727.0	13640.1	13222.9	12881.1	13350.4	13924.1	13987.8	13669.1	13611.2
52.5°	14602.0	14764.2	14972.8	15042.4	14642.6	14520.9	14549.9	15262.6	15106.1	14799.0	14602.0
55°	15795.7	15871.0	16253.4	16827.1	16798.1	16212.9	16548.9	16815.5	16178.1	15546.5	15598.6
57.5°	16305.6	16340.3	17406.5	18553.8	19237.6	19370.8	18988.4	18090.3	16572.1	15355.3	15280.0
60°	15036.6	15366.9	16653.2	19243.4	22366.6	23907.9	21364.1	18235.1	15650.8	14173.2	14063.1
62.5°	12017.7	12035.1	13947.2	17875.9	24313.5	28352.2	22273.9	16873.4	13194.0	11519.4	11079.0
64°	8558.4	8720.6	10916.7	15824.6	23907.9	30160.1	22163.8	15094.5	10876.2	8500.5	8193.3
65°	6142.1	6368.1	8488.9	13738.6	22957.6	29945.7	21833.5	13564.8	8796.0	6489.8	6176.9
67.5°	2259.8	2352.5	3331.8	6872.2	16485.2	25518.7	17302.2	7457.5	3864.9	2752.4	2474.2
70°	1048.8	1054.6	1234.2	2271.4	7208.3	17064.6	8257.1	2798.7	1454.4	1153.1	1072.0
72.5°	770.7	788.0	863.4	1048.8	2120.8	7225.7	2711.8	1147.3	851.8	753.3	735.9
75°	625.8	637.4	660.6	759.1	979.3	1935.3	1100.9	793.8	678.0	608.4	585.2
77.5°	480.9	480.9	533.1	579.4	649.0	903.9	730.1	631.6	550.5	480.9	463.6
80°	347.7	353.5	417.2	452.0	440.4	596.8	527.3	521.5	452.0	376.6	347.7
82.5°	202.8	220.2	301.3	324.5	312.9	353.5	382.4	405.6	353.5	260.8	237.6
85°	115.9	121.7	173.8	179.6	179.6	168.0	220.2	243.4	237.6	162.2	144.9
87.5°	34.8	34.8	46.4	46.4	52.2	57.9	86.9	104.3	115.9	81.1	75.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	6008.8	5921.9	5927.7	5950.9	5875.6	5904.5	5991.5	5927.7	5910.3	5875.6	5858.2
5°	5979.9	6072.6	6037.8	6049.4	6032.0	5950.9	5939.3	5991.5	6020.4	5968.3	6072.6
7.5°	6182.7	6142.1	6095.8	6113.1	6072.6	6142.1	6188.5	6084.2	6136.3	6107.3	6049.4
10°	6298.6	6223.2	6258.0	6246.4	6217.4	6287.0	6240.6	6229.0	6182.7	6118.9	6211.6
12.5°	6339.1	6426.0	6484.0	6385.5	6402.9	6368.1	6339.1	6339.1	6287.0	6269.6	6287.0
15°	6518.8	6594.1	6570.9	6646.2	6547.7	6582.5	6617.3	6530.3	6576.7	6449.2	6547.7
17.5°	6849.0	6785.3	6866.4	6767.9	6802.7	6872.2	6762.1	6762.1	6796.9	6727.4	6640.4
20°	7057.6	7028.7	6999.7	7005.5	6947.5	7011.3	6976.5	6959.1	6907.0	6930.2	6976.5
22.5°	7254.6	7214.1	7225.7	7243.1	7283.6	7254.6	7237.3	7254.6	7127.2	7243.1	7080.8
25°	7498.0	7608.1	7573.3	7648.7	7532.8	7608.1	7602.3	7492.2	7561.8	7515.4	7480.6
27.5°	7903.6	7845.7	7897.8	7805.1	7886.2	7892.0	7822.5	8007.9	7926.8	7915.2	7892.0
30°	8425.1	8384.6	8349.8	8297.6	8361.4	8309.2	8367.2	8384.6	8309.2	8251.3	8141.2
32.5°	8720.6	8830.7	8871.3	8743.8	8749.6	8778.6	8726.4	8674.3	8720.6	8738.0	8720.6
35°	9137.8	9242.1	9265.3	9166.8	9114.7	9259.5	9155.2	9329.1	9178.4	9184.2	9027.7
37.5°	9624.6	9653.5	9850.6	9740.5	9694.1	9624.6	9815.8	9792.6	9827.4	9549.2	9688.3
40°	10175.0	10279.3	10389.4	10111.3	10105.5	10169.3	10157.7	10290.9	10227.2	10186.6	10088.1
42.5°	10777.7	10997.9	11015.2	10829.8	10713.9	10702.3	10760.3	11055.8	11061.6	10795.1	10679.2
45°	11577.3	11820.7	11756.9	11397.7	11270.2	11252.8	11536.7	11664.2	11774.3	11670.0	11571.5
47.5°	12573.9	12736.2	12689.8	12359.6	11948.1	12064.0	12342.2	12742.0	12626.1	12487.0	12371.1
50°	13640.1	13831.3	13732.8	13402.6	13008.5	13008.5	13350.4	13860.3	13825.5	13553.2	13448.9
52.5°	14822.2	15100.3	15326.3	14857.0	14526.7	14578.8	15117.7	15303.1	15216.2	15025.0	14938.1
55°	15702.9	16236.0	16699.6	16722.8	16740.2	16734.4	16873.4	17058.8	16438.8	16131.7	15818.8
57.5°	15488.6	16496.8	18084.5	19162.2	19480.9	19649.0	19602.6	18745.0	17279.0	16270.8	16375.1
60°	13958.8	15604.4	18165.6	21624.9	23942.7	23710.9	22864.9	19475.1	16815.5	15111.9	14897.5
62.5°	11136.9	13118.6	16803.9	22320.2	28705.7	28636.2	24209.2	17788.9	14011.0	11855.4	11722.2
64°	8390.4	10476.4	14990.2	22140.6	30374.5	30444.0	23867.3	15714.5	10963.1	8390.4	8187.6
65°	6420.2	8355.6	13211.3	21769.7	30015.2	30055.8	22917.0	13570.6	8332.4	5956.7	5736.5
67.5°	2555.4	3557.8	7167.7	16508.4	25773.7	25663.6	16351.9	6565.1	3186.9	2074.4	2033.9
70°	1089.4	1355.9	2514.8	7822.5	17255.9	16937.2	7040.3	2132.4	1182.1	990.9	985.1
72.5°	747.5	828.6	1077.8	2416.3	7173.5	7005.5	2004.9	990.9	805.4	741.7	741.7
75°	602.6	660.6	782.3	1014.0	1900.6	1831.0	944.5	730.1	643.2	596.8	591.0
77.5°	469.4	527.3	614.2	701.1	869.2	863.4	631.6	550.5	498.3	463.6	452.0
80°	370.8	428.8	486.7	498.3	567.9	556.3	428.8	434.6	405.6	336.1	330.3
82.5°	255.0	347.7	388.2	353.5	336.1	336.1	307.1	307.1	283.9	208.6	191.2
85°	156.5	231.8	243.4	208.6	156.5	156.5	168.0	162.2	150.7	110.1	104.3
87.5°	81.1	110.1	98.5	81.1	52.2	52.2	46.4	34.8	34.8	29.0	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)